

FORM FOR SCORING OF TRAINING RESOURCE TO FULFILL FEDERAL BUILDING PERSONNEL TRAINING ACT (FBPTA) CORE COMPETENCIES

The FBPTA requires Federal building personnel to demonstrate compliance with a set of Core Competencies. The General Services Administration (GSA) accepts submissions for courses, certificates, certifications, accreditations, registrations, licenses, and other qualifications that demonstrate alignment with the FBPTA Core Competencies. GSA will post resources that sufficiently map to FBPTA Core Competency requirements on the FMI webpage (www.fmi.gov) and may incorporate them into the Core Competency Web Tool. The Web Tool allows Federal buildings personnel to immediately claim credit for competencies met by completing approved training. FMI and the Core Competency Web Tool help Federal employees identify appropriate training, and allow Federal agencies to share information on training sources. To qualify for consideration, submitters complete this form describing how a specific training resource, certification / accreditation, license or other resource aligns with FBPTA core competencies through AskFMI@gsa.gov.

Initial Review Conducted By: Maria Fara

Initial Review Submission Completion Date: August 30, 2013

Technical Review Conducted By: Angela Lewis

Technical Review Submission Completion Date: January 3, 2013

Alignment of Competency with Functional Roles

- Often Aligned with Facility Management roles (24/43 Core Competencies)
- Often Aligned with Building Operations Professional roles (6/43 Core Competencies)
- Often Aligned with Energy Management Role (7/43 Core Competencies)
- Often Aligned with more than one role (6/43 Core Competencies)

1. Please complete the following for each training course submitted for consideration:

Training provider: BOMI International

Provider address information (primary physical location, including address, city, state, zip code): One Park Place Suite 475, Annapolis, MD 21401

Provider's primary point of contact for this learning resource (name, primary physical location (if different from provider address information), phone, and email): Ron Bishop, (410) 974-1410 x1259, rbishop@bomi.org

Title of this training resource: Electrical Systems and Illumination

Type of training course: Property and Facilities Management

Does this course provide CEUs (Continuing Education Units) and if so, how many and for what occupation or field? Yes, 24 CE hours towards LEED Credential Maintenance Program, plus 2 ACE semester hours.

Learning objective(s) associated with this training course: Demonstrate an understanding of electricity basics, Measure electrical consumption, Install and monitor motors and starters, Recognize, set up, and maintain reliable and effective maintenance and safety systems.

Delivery method and learning methods (delivery methods may include online instruction, classroom instruction, or other means, and learning methods could include lecture, group work, essay work, quizzes, or other learning activities): Instructor Led Online, Self-Study, Live Classroom/Accelerated Review. Learning Methods, lecture, group work, quizzes, practice exam, 3rd Party proctored final exam.

Length of training (in hours): 24 Hours

URL link to information about the training course, content, and/or syllabus: <http://www.bomi.org/Courses/Electrical-Systems-and-Illumination/>

2. Review the course objective(s) that have been submitted as being aligned with required FBPTA performance criteria. Review the learning methods in the course that will support that learning objective(s).

FBPTA Core Competency Area	FBPTA Core Competency	Required FBPTA performance criteria	Based on technical review of learning objectives and skills, does this resource map to the performance criteria?	Initial Review: Are all submission requirements included?	Initial Review: Are descriptions clear and logical?	Initial Review: Are all materials referenced included with the submission?	Technical Review: Learning Objectives Reviewed	Technical Review: Skills Reviewed	Technical Review: Are there any clarifications requested?	If clarification requested, note here	Clarification Response From Provider	Technical Review: Identify other materials submitted	Technical Review: Other Materials Reviewed
1. Management of Facilities O&M	1.1 Management of Building Systems	1.1.1.Demonstrate familiarity with Building Systems.	Partial. Based on the scope of this course, partial credit is awarded for demonstration of knowledge of electrical and lighting systems.	Yes	Yes	Yes	Yes	Yes	No			Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.
		2.2.1.Demonstrate knowledge and ability with Lighting Systems.	Yes, based on review of the learning objectives and skills/materials covered, the course should provide learners with the opportunity to gain knowledge about to manage and maintain lighting systems.	Yes	Yes	Yes	Yes	Yes	No			Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.

2. Performance of Facilities O&M	2.2. Operating and Maintaining Electrical and Mechanical Systems	2.2.2.Demonstrate knowledge and ability to change: electrical fuses, control boards, electrical fixtures, and electrical relays.	Partial. Based on the scope of this course, partial credit is awarded for demonstration of knowledge of fuses and electrical (lighting) fixtures.	Yes	It is clear that the course provides learners with the opportunity to gain knowledge about fuses. It is not clear that the course provides learners with the opportunity to gain knowledge and ability to change control boards, electrical fixtures or electrical relays. Please describe how the course provides learners with the opportunity to gain the ability to change control boards, electrical fixtures and electrical relays. The learning methods provided state that simulation and other resources are used. Is simulation used to demonstrate ability? After taking the course, will the student be physically able to change electrical fuses, control boards, electrical fixtures, and electrical relays? If so, please provide more information or course material.	Procedures and safety measures are addressed in the course. Regarding course delivery, simulations are at the discretion of the instructor and the client.	Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.						
		2.2.3.Demonstrate knowledge and ability to replace electric motors.	Partial. Based on the scope of this course, partial credit is awarded for demonstration of knowledge of motor replacement.	Yes	It is clear that the course provides learners with the opportunity to gain knowledge of electric motors. However, it is not clear that the course provides learners with the opportunity to replace electric motors. Please describe how the course provides learners with the opportunity to gain the ability to replace electric motors. The learning methods provided state that simulation and other resources are used. Is simulation used to demonstrate ability? After taking the course, will the student be physically able to replace electrical motors? If so, please provide more information.	Guidance is provided on selecting a replacement motor, including calculations of energy savings, efficiency, motor characteristics, and other factors. Regarding course delivery, simulations are at the discretion of the instructor and the client.	Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.						
3. Technology	3.1. Technology Solutions	3.1.9.Demonstrate ability to manage corrective, preventive, and predictive maintenance.	No, based on review of the learning objectives and skills/materials covered, this course does not demonstrate the ability to manage corrective, preventive or predictive maintenance. The course does not map to performance criteria 3.1.9. Although the course includes lighting system maintenance practice, the course does not discuss maintenance within the context of the three strategies requested: corrective, preventive and predictive.	Yes	Although it is clear that the course provides information about lighting system maintenance, it is not clear if the maintenance requirements are discussed within the context of corrective, preventive and predictive maintenance.	Lighting system maintenance is addressed through cleaning, relamping, and repair. Preventive and ongoing maintenance in BOMI courses includes maintaining operations logs, reviewing logs and performance data, and other steps characteristic of predictive maintenance.	Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.						
4. Energy Management	4.4. Coordinate with Public Utilities	4.4.2.Demonstrate knowledge of utility meters - location, reading, and data management.	Partial. This course received credit because the course provides general knowledge of utility meters. However, this performance criteria has been identified as an agency specific performance criteria which requires some verification on the agency side. Therefore, only partial credit is given.	Yes	Yes	Yes	Yes	Yes	No				Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.
5. Safety	5.1. Basic Requirements	5.1.2.Complete electrical safety course and be familiar with electrical codes and regulations and best practices.	Yes, based on review of the learning objectives and skills/materials covered, the course should include information about electrical codes, regulations and best practices.	Yes	Yes	Yes	Yes	Yes	No				Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.
6. Design	6.2. Infrastructure Systems	6.2.1.Demonstrate knowledge and understanding of the design basis of all applicable Architectural and Engineering Systems.	Partial. This course received credit because the course includes information about electrical and lighting systems. The course does not include information about roofing, window, HVAC, telecommunication, fire protection, BAS, IT, interior design, landscape architecture or plumbing systems.	Yes	It is clear from the scope of the course that it covers electrical and lighting systems. However, it does not appear that the course covers roofing, window, HVAC, telecommunication, fire protection, BAS, IT, interior design, landscape architecture or plumbing systems. Please clarify if the course includes information about occupant needs and requirements and/or resource flows.	Request partial credit. BOMI courses on specific systems include Boilers, Heating Systems, and Applied Mathematics; Refrigeration Systems and Accessories; Air Handling, Water Treatment, and Plumbing Systems; Energy Management and Controls; and this course. The level of detail addressed in these courses is useful in the design of facilities. How these facilities elements are interrelated and impact design are best addressed in either Building Design and Maintenance, or the combination of The Design, Operation, and Maintenance of Building Systems, Part I and Part II.	Link to course description on website.	Learning Objectives, Skills, and learning methods listed in re-submittal.						